


FORM PTO-1390 (REV. 12-29-99)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTORNEY'S DOCKET NUMBER	
TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371]3455-	
				U.S. APPLICATION NO. (If known, use 37 CFR 1.55) 09/509695	
INTERNATIONAL APPLICATION NO. PCT/GB98/0294]		INTERNATIONAL FILING DATE 30 September 1998		PRIORITY DATE CLAIMED 01 October 1997	
TITLE OF INVENTION PHEROMONE COMPOSITION					
APPLICANT(S) FOR DO/EO/US GEORGE HENRY DODD					
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:					
<ol style="list-style-type: none"> 1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a filing under 35 U.S.C. 371. 2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371. 3. <input checked="" type="checkbox"/> This express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1). 4. <input checked="" type="checkbox"/> A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date. 5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)) <ol style="list-style-type: none"> a. <input checked="" type="checkbox"/> is transmitted herewith (required only if not transmitted by the International Bureau). b. <input checked="" type="checkbox"/> has been transmitted by the International Bureau. c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). 6. <input type="checkbox"/> A translation of the International Application into English (35 U.S.C. 371(c)(2)). 7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) <ol style="list-style-type: none"> a. <input checked="" type="checkbox"/> are transmitted herewith (required only if not transmitted by the International Bureau). b. <input checked="" type="checkbox"/> have been transmitted by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input type="checkbox"/> have not been made and will not be made. 8. <input type="checkbox"/> A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). 10. <input type="checkbox"/> A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). 					
<p>Items 11. to 16. below concern document(s) or information included:</p> <ol style="list-style-type: none"> 11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 13. <input checked="" type="checkbox"/> A FIRST preliminary amendment. <input type="checkbox"/> A SECOND or SUBSEQUENT preliminary amendment. 14. <input type="checkbox"/> A substitute specification. 15. <input type="checkbox"/> A change of power of attorney and/or address letter. 16. <input type="checkbox"/> Other items or information: 					

U.S. APPLICATION NO (if known, see 37 CFR 1.51) 09/509695		INTERNATIONAL APPLICATION NO PCT/GB98/02941	ATTORNEY'S DOCKET NUMBER 13455	
17. <input checked="" type="checkbox"/> The following fees are submitted: BASIC NATIONAL FEE (37 CFR 1.492 (a) (1) - (5)) : Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO \$970.00 International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO \$840.00 International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO \$690.00 International preliminary examination fee paid to USPTO (37 CFR 1.482) but all claims did not satisfy provisions of PCT Article 33(1)-(4) \$670.00 International preliminary examination fee paid to USPTO (37 CFR 1.482) and all claims satisfied provisions of PCT Article 33(1)-(4) \$96.00 ENTER APPROPRIATE BASIC FEE AMOUNT =			CALCULATIONS PTO USE ONLY	
Surcharge of \$130.00 for furnishing the oath or declaration later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(e)).			\$ 840.00	
			\$ 0	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	
Total claims	20 - 20 =	0	X \$18.00	\$ 0
Independent claims	1 - 3 =	0	X \$78.00	\$ 0
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$260.00	\$ 0
TOTAL OF ABOVE CALCULATIONS =			\$ 840.00	
Reduction of 1/2 for filing by small entity, if applicable. A Small Entity Statement must also be filed (Note 37 CFR 1.9, 1.27, 1.28).			\$ 0	
SUBTOTAL =			\$ 840.00	
Processing fee of \$130.00 for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(f)).			\$ 0	
TOTAL NATIONAL FEE =			\$ 840.00	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property			+	
TOTAL FEES ENCLOSED =			\$ 840.00	
			Amount to be refunded:	\$
			charged:	\$
a. <input checked="" type="checkbox"/> A check in the amount of \$ <u>840.00</u> to cover the above fees is enclosed.				
b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed.				
c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>50-1039</u> . A duplicate copy of this sheet is enclosed.				
NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.				
SEND ALL CORRESPONDENCE TO: QUINN, Charles N. Saul, Ewing, Remick & Saul LLP Centre Square West 1500 Market Street, 38th Floor Philadelphia, Pennsylvania 19102-2136 United States of America			 SIGNATURE: Charles N. Quinn, Esq. NAME <u>27,223</u> REGISTRATION NUMBER	

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re patent application of : Group Art Unit: N/A
George Henry Dodd :
Serial No.: Not yet assigned : Examiner: N/A
Filed: March 30, 2000 :
Title: Pheromone Composition :
International Application No.: PCT/GB98/02941 :

PRELIMINARY AMENDMENT

Assistant Commissioner for Trademarks
Washington, D.C. 20231
Box PCT

Dear Sir:

Prior to submission of the inventor's oath and calculation of the surcharge please amend
the claims of this application as follows:

3. (Amended) A composition as claimed in claim 1 [any of claims or 2] wherein the carrier is an aliphatic alcohol or propylene glycol.
4. (Amended) A composition as claimed in claim 1 [any of the previous claims] wherein the composition comprises trimethylkamine hydrochloride and 5-alpha-androst-16-en-3- α -ol.
5. (Amended) A composition as claimed in claim 1 [any of the preceding claims] wherein the composition is a liquid
6. (Amended) A composition as claimed in claim 1 [any of the preceding claims] which is formulated for injection into bait.
7. (Amended) A composition as claimed in claim 1 [any of claims 1-5] which is formulated as a spray.
8. (Amended) Plastic bait including the composition as claimed in claim 1 [any of claims 1-5]
9. (Amended) Dried ground bait including a composition as claimed in claim 1 [any of claims 1-4]

Please add the following additional claims:

- A2
10. A composition as claimed in claim 2 wherein the carrier is an aliphatic alcohol or propylene glycol.
 11. A composition as claimed in claim 10 wherein the composition comprises trimethylamine hydrochloride and 5-alpha-androst-16-en-3- α -ol.
 12. A composition as claimed in claim 11 wherein the composition is a liquid.
 13. A composition as claimed in claim 12 which is formulated for injection into bait.
 14. A composition as claimed in claim 12 which is formulated as a spray.
 15. Plastic bait including the composition as claimed in claim 12.
 16. Dried ground bait including a composition as claimed in claim 10.
 17. Dried ground bait including a composition as claimed in claim 11.
 18. Plastic bait including the composition as claimed in claim 11.
 19. Plastic bait including the composition as claimed in claim 10.
 20. Plastic bait including the composition as claimed in claim 2.

Subject to submission of the inventor's oath in payment of the surcharge applicant respectively solicits a prompt and thorough examination of all of the claims pending in the application.

Respectfully submitted,

SAUL, EWING, REMICK & SAUL LLP

By:



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Registration No. 27,223
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1 PHEROMONE COMPOSITION

2

3 The invention relates to compositions formulated to

4 attract fish, in order to capture them. More

5 particularly the composition may be used in a liquid

6 form to be applied onto or into bait, lures or flies

7 which are used by anglers and commercial fishermen

8 alike.

9

10 Angling and fishing are sports which attract a large

11 number of people. A wide range of bait, lures and

12 flies are marketed at these persons in order to provide

13 them with more success in catching fish.

14

15 Some organic compounds are known to be active in the

16 feeding response of some species by enhancing feeding

17 or attracting fish to a general area. They are known

18 to occur at low concentration levels in crustacea and

19 also in a range of decomposing animals. Such compounds

20 are small organic odorants.

21

22 It has been reported that women have a greater success

23 rate in catching salmon than male anglers (see *Salmon*

24 *and women*, W. Paterson & P. Behan, published by H, F &

25 G Witherby Ltd 1990).

5 It is another object of the invention to provide a
6 method to attract fish by using the composition of the
7 invention.

14 It has surprisingly been found that compositions
15 containing at least one human female pheromone presents
16 an unexpectedly good attractive effect on fish, and
17 particularly on salmon. Such compositions may be
18 applied on any kind of bait used by anglers and
19 fishermen.

29 The objects of the invention are achieved with a fish
30 attracting composition comprising at least one human
31 female pheromone, or a synthetic nature-similar version
32 of the latter.

34 In one embodiment the invention provides at least one
35 female human pheromone together with an acceptable
36 carrier.

1 Alternatively the composition can comprise a synthetic
2 female pheromone with a carrier. Preferably the
3 carrier solubilises the compound.

4
5 Preferred carriers include aliphatic alcohols such as
6 ethanol, monoethylene glycol and propylene glycol.

7
8 It is preferred that the pheromone used in the
9 composition of the invention be at least trimethylamine
10 or one volatile steroid of the androstene family
11 together with at least one compound chosen from a
12 complex array of alkanolic acids, including those having
13 a carbon atom number ranging from C4 to C5 and
14 especially substituted acids having a carbon atom
15 number ranging from C8 to C10.

16
17 A particularly preferred composition comprises at least
18 one salt of trimethylamine (typically the
19 hydrochloride) and 5- α -androst-16-en-3- α -ol.

20
21 A preferred composition according to the invention may
22 comprise in association with nature-similar versions of
23 human female pheromones, a suite of other potent aroma
24 chemicals (referred to herein as Key Impact Odorants
25 [KIOs]) which occur in both fresh and decomposing
26 animal tissue.

27
28 These other KIOs can be special amines and associated
29 heterocyclic compounds including nitrogen and sulphur
30 such as indole and skatole. It is also preferred that
31 the odorant compounds be provided with concentrations
32 of several order of magnitude higher than the ones
33 which are found in conventional bait.

34
35 The composition of the invention can be used in various
36 embodiments.

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1 In one embodiment the composition is a liquid which
2 bait, lure, fly, ground bait and/or hooks can be dipped
3 into or the liquid can be poured onto the bait, lure,
4 fly, ground bait and/or hooks.

5

6 The composition of the invention may also be formulated
7 as a spray to allow easy manipulation by the users and
8 could either be hand pumped or gas driven.

9

10 In a preferred embodiment the composition is formulated
11 to be injected into bait.

12

13 Alternatively the composition can be incorporated into
14 plastic bait.

15

16 To attract fish one may apply the composition of the
17 invention on a bait or a suitable support and provide
18 it in area where fish are used to be found.

19

20 The composition may also be applied directly onto bare
21 hooks.

22

23 The composition of the invention can be formulated for
24 a wide range of applications including combining with
25 floatant, spraying flies, combining with greasing or
26 degreasing agents to enable bait to float or sink as
27 required.

28

29 The formulation can also be combined with ground bait
30 and dried for storage purposes.

31

32 Formulations of the present invention are surprisingly
33 effective in aqueous solution. Whereas a preferred
34 carrier is ethanol and a basic formulation can include
35 a salt of trimethylamine in ethanol, in use the
36 formulation produces trimethylamine on contact with

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1 water. In fishing, the formulation will be vastly
2 diluted in water and therefore it is most surprising
3 that use of the formulation can effectively enhance
4 fishing.

5
6 The pheromones which may be advantageously used in a
7 composition according to the invention include the
8 following:

9
10 Trimethylamine (TMA) (as derived from a salt of
11 trimethylamine such as the hydrochloride) is an
12 exceptionally interesting KIO pheromone. It occurs on
13 human skin and is especially important for females. It
14 is the characteristic odour of a menstruating female.
15 The odour profile is distinctive and is not shared by
16 closely related amines such as, for example,
17 dimethylamine. The aroma is that of fresh shell fish
18 at the threshold level. In fact it is thought that
19 most of the charm of oyster, scallops and the like
20 comes from TMA. The aroma changes with increasing
21 concentration and becomes increasingly unpleasant. At
22 a high level TMA will be perceived as an off-odour in
23 shell fish and the like, and as a sign of lack of
24 hygiene in a human subject.

25
26 The threshold concentration for humans is about 1ppb (1
27 part in 10^9) - this is low by olfactory standards.
28 There is, in fact, great individual variability and the
29 concentration varies around the mean figure by about 3
30 orders of magnitude. This gives rise to great
31 variability; for example, a crustacean may appear
32 delightful to a person of high threshold but may be
33 abhorrent to a person of low threshold (skin
34 sensitivity). See in that matter "Ageing and the Sense
35 of Smell" C, Van Toller, GH Dodd & A Billing, Charles T
36 Thomas, Publisher, Springfield, Illinois, USA, 1985.

1 Another interesting pheromone to be used in the fish-
2 attracting composition is 1-Pyrroline. This is a rare
3 and little studied human pheromone. It is unstable and
4 therefore very difficult to study. It is formed by
5 oxidation of precursor molecules such as 1,4-
6 diaminobutane and 1,4-diaminopentane. These amines
7 occur in a variety of human tissues, and can be formed
8 from appropriate amino acids.

9
10 In order to overcome the instability problem when 1-
11 Pyrroline is to be used in a fish-attracting
12 composition of the invention, the parent amines (i.e.
13 the above mentioned precursors) are incorporated at a
14 high level in the composition. They will slowly
15 oxidize and release the unstable active odorant.

16
17 These parent amines are also called respectively,
18 putrescine and cadaverine, for obvious olfactory
19 reasons and occurred in decomposing animal tissue. The
20 human threshold is in the ppb range.

21
22 A further preferred pheromone is the 5-alpha-androst-
23 16-en-3-alpha-ol. This pheromone is a well-known pheromone
24 which is found in both males and females but is thought
25 to be more important for women (in contrast to the
26 related steroid pheromone, alpha-androstenone). The
27 threshold for human is in the low ppb range. The odour
28 is usually described as musky.

29
30 A still further preferred pheromone is 4-Methyloctanoic
31 acid which is characteristic of the scalp odour and may
32 be found in gamey meat. The threshold is unusually low
33 for a fatty acid and is in the region of ppb. It is
34 has been reported that women are much more sensitive to
35 this odorant than men.

36

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1 A particular composition according to the invention has
2 been tested in fishing experiments on the River Ness,
3 other rivers in the Highlands, and in Ireland and on a
4 variety of Lochs. Positive results have been obtained.

5

6 The composition of this particular non-limiting
7 composition is the following :

8

9	Component No	Name	Amount Required for
10			1000 litres of
11			solvent (ethanol)
12			
13	1	Trimethylamine	7kg
14		hydrochloride	
15	2	1,4 diaminobutane	0.7kg
16	3	1,4 diaminopentane	0.1kg
17	4	indole	50 grm
18	5	skatole	40 grm
19	6	isovaleric acid	40 grm
20	7	4-methyloctanoic acid	10 grm
21	8	4-methylnonanoic acid	5 grm
22	9	phenylacetic acid	20 grm
23	10	2-methyl-E-butenic acid	5 grm
24	11	4-methylpentanoic acid	10 grm
25	12	2-methyl-2-pentenoic acid	10 grm
26	13	5-alpha-androst-16-en-3-alpha-ol	60 mg-6g

27

28 A more general preferred composition comprises

29

30	Component No	Name	Amount Required for
31			1000 litres of
32			solvent
33			
34	1	KIO Pheromone	0.05-50kg
35	2	Alkanoic acid	5g-1.5kg
36	3	Amines	0.1kg-8kg

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1 ventures for 1997 would indicate a 20% reduction on the
2 1996 season.

3
4 Water temperatures were slightly higher than previous
5 years.

6
7 Most salmon for this study were caught on an imitation
8 shrimp fly dressing of various sizes.

9
10 All subjects chosen for this study were male with
11 average age of 45 years.

12
13 All subjects chosen tie their own flies, however,
14 similar selected shrimp/prawn flies were distributed to
15 all.

16
17 Salmon flies used were purchased from local fishing
18 tackle shops.

19
20 The final results of this initial trial study would
21 indicate some relationship between the choice of fly
22 with sample female pheromone and the traditional fly
23 fishing method.

24
25 One fisherman has fished for Sea Bass (commonly known
26 as Salmon Bass) off the east coast for many years, with
27 varying success. This specialist fishing activity
28 fished off chosen rocky points in July/August would
29 normally yield 1-2 fish per outing. This year, using
30 identical fishing lures, substantially improved bass
31 catches were recorded with better than average sizes
32 using the female pheromone formulation described
33 herein. Other specialist bass anglers fishing the same
34 waters did not use the formulation and did not return
35 above average catches.

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1 CLAIMS

- 2
- 3 1. A fish attracting composition comprising at least
- 4 one human female pheromone, or a synthetic nature-
- 5 similar version thereof, wherein the pheromone is
- 6 at least one volatile steroid of the androstene
- 7 family and the composition further comprises at
- 8 least one compound chosen from a complex array of
- 9 alkanoic acids.
- 10
- 11 2. A composition as claimed in claim 1 further
- 12 comprising an acceptable carrier.
- 13
- 14 3. A composition as claimed in any of claims 1 or 2.
- 15 wherein the carrier is an aliphatic alcohol or
- 16 propylene glycol.
- 17
- 18 4. A composition as claimed in any of the previous
- 19 claims wherein the composition comprises
- 20 trimethylamine hydrochloride and 5- alpha-androst-
- 21 16-en-3- α -ol.
- 22
- 23 5. A composition as claimed in any of the preceding
- 24 claims wherein the composition is a liquid.
- 25
- 26 6. A composition as claimed in any of the preceding
- 27 claims which is formulated for injection into
- 28 bait.
- 29
- 30 7. A composition as claimed in any of claims 1-5
- 31 which is formulated as a spray.
- 32
- 33 8. Plastic bait including the composition as claimed
- 34 in any of claims 1-5.

3

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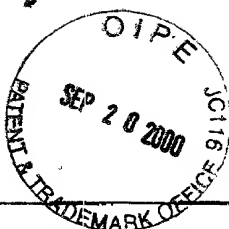
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[illegible]

AMENDED SHEET



COMBINED DECLARATION AND POWER OF ATTORNEY

**(ORIGINAL, DESIGN, NATIONAL STAGE OF PCT, SUPPLEMENTAL, DIVISIONAL,
CONTINUATION, OR C-I-P)**

As a below named inventor, I hereby declare that:

TYPE OF DECLARATION

This declaration is for a national stage of PCT application.

INVENTORSHIP IDENTIFICATION

My residence, post office address and citizenship are as stated below, next to my name. I believe that I am the original, first and sole inventor of the subject matter that is claimed, and for which a patent is sought on the invention entitled:

TITLE OF INVENTION

PHEROMONE COMPOSITION

SPECIFICATION IDENTIFICATION

The specification was filed on March 30, 2000, as Serial No. 09/509,695.

ACKNOWLEDGMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information, which is material to patentability as defined in 37, Code of Federal Regulations, Section 1.56.

PRIORITY CLAIM (35 U.S.C. Section 119(a)-(d))

I hereby claim foreign priority benefits under Title 35, United States Code, Section 119(a)-(d) of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

Such applications have been filed as follows.



**PRIOR PCT APPLICATION(S) FILED WITHIN 12 MONTHS
(6 MONTHS FOR DESIGN) PRIOR TO THIS APPLICATION
AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. SECTION 119(a)-(d)**

INDICATE IF PCT	APPLICATION NUMBER	DATE OF FILING DAY, MONTH, YEAR	PRIORITY CLAIMED UNDER 35 USC 119
PCT	PCT/GB98/02941	30 September 1998	yes

POWER OF ATTORNEY

I hereby appoint the following practitioner(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

APPOINTED PRACTITIONER(S)

REGISTRATION NUMBER(S)

Charles N. Quinn

27,223

I hereby appoint the practitioner(s) associated with the Customer Number provided below to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

SEND CORRESPONDENCE TO

DIRECT TELEPHONE CALLS TO:

Charles N. Quinn
215-972-1965

Charles N. Quinn
Centre Square West
1500 Market Street, 38th Floor
Philadelphia, PA 19102

DECLARATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

SIGNATURE(S)

George Henry Dodd

Inventor's signature

Date 08-08-2000

Country of Citizenship United Kingdom

Residence

Post Office Address

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PATENT & TRADEMARK OFFICE

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed..

In George Henry Dodd
Printed Name of Person Signing

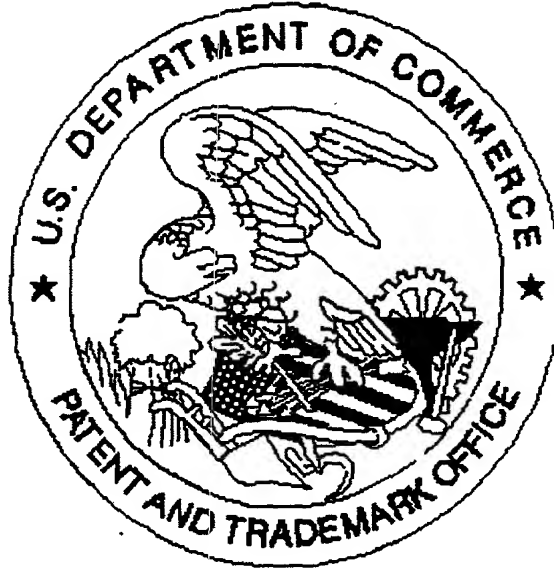
George H Dodd
Signature

R & D Director - KriTech
Title

Date 08-08-2000

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for scanning. (Document title)

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